

### Patent Claims

1. Tissue regenerating agent comprising a fusion protein derived from a protein or a peptide sequence which effects uptake in cells and comprising a protein inducing the proliferation of cells.
2. Tissue regenerating agent comprising a fusion protein derived from the viral protein VP22 with a protein inducing the proliferation of cells.
3. Tissue regenerating agent comprising a fusion protein derived from a protein or a peptide sequence that effects uptake in cells, with the SV40 T-antigen.
4. Agent according to Claim 1, comprising a fusion protein derived from the viral protein VP22 with the SV40 T-antigen.
5. Agent according to Claim 1, comprising a fusion protein derived from the viral protein VP22 with a viral cyclin.
6. Use of the agent according to Claims 1-5 for regeneration of cardiac tissue damaged by an infarct.
7. Use of the agent according to Claims 1-5 for regeneration of nerve cells.
8. Use of the agent according to Claims 1-5 for cultivation of terminally differentiated cells.
9. Use of the agent according to Claim 8 for ex vivo cultivation, for example of cardiomyocytes with subsequent re-implantation.